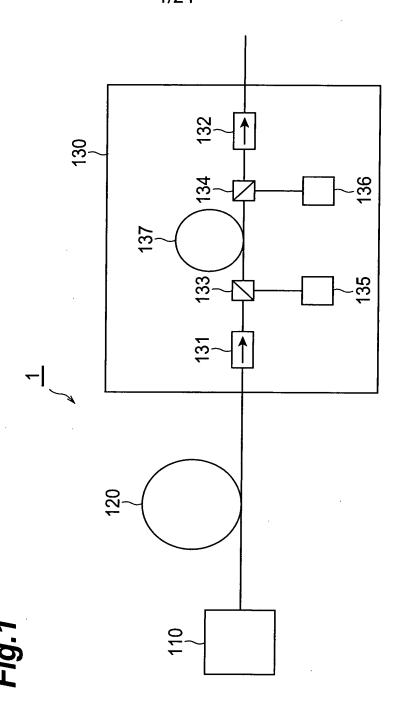
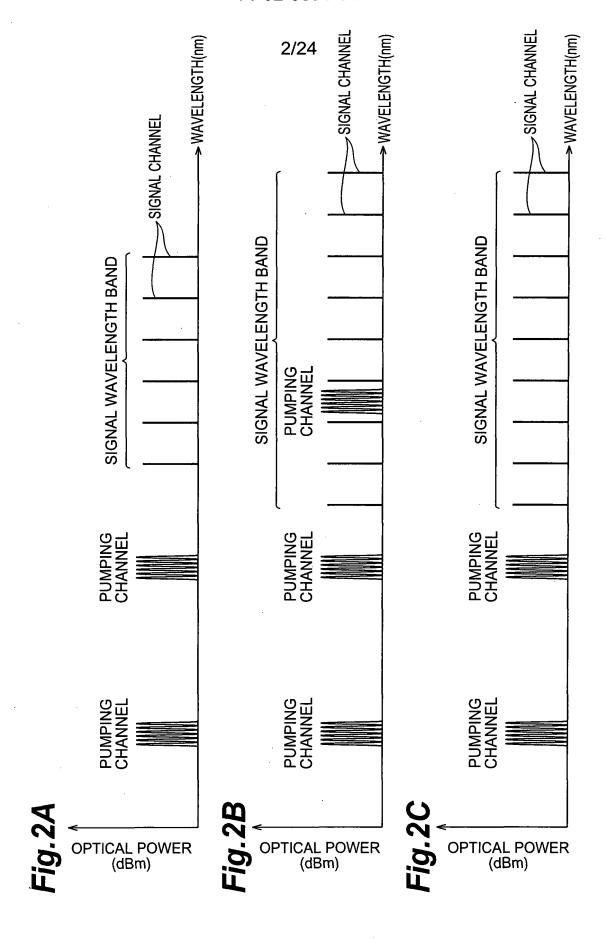
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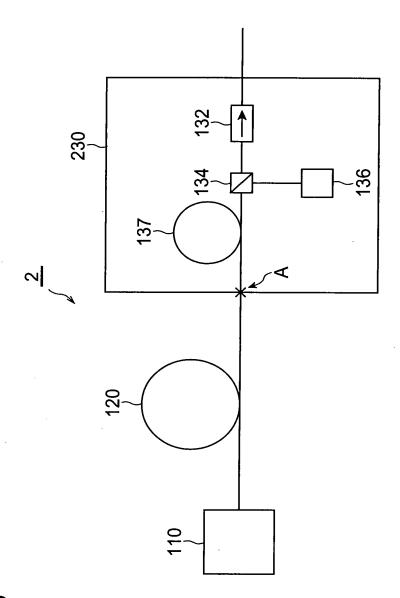
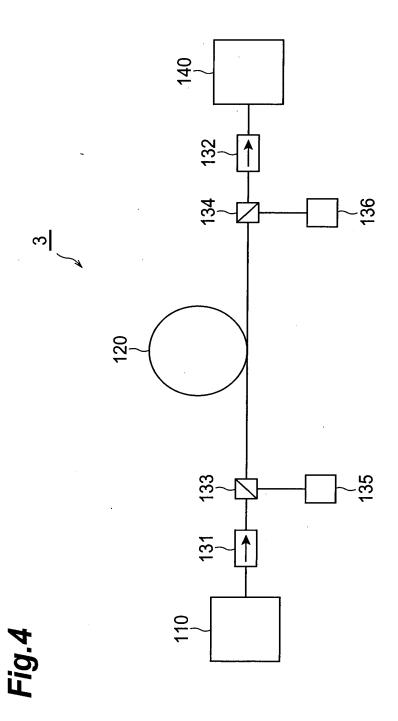


Fig.3

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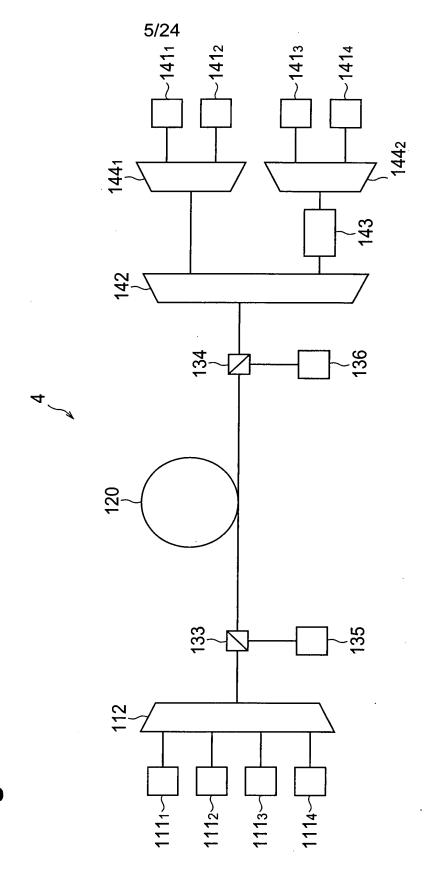
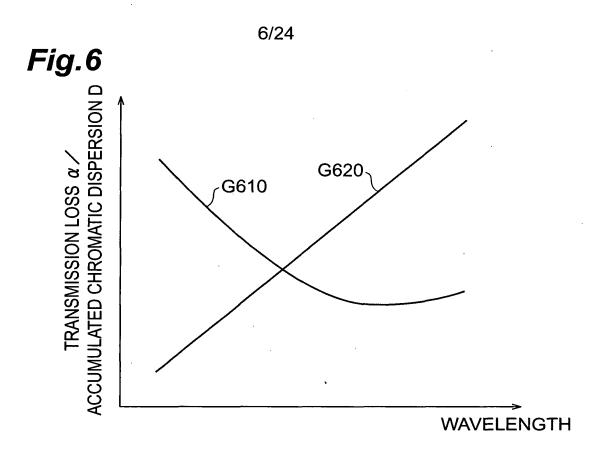


Fig.5





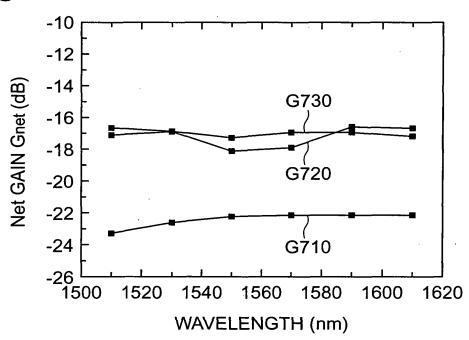


Fig.8

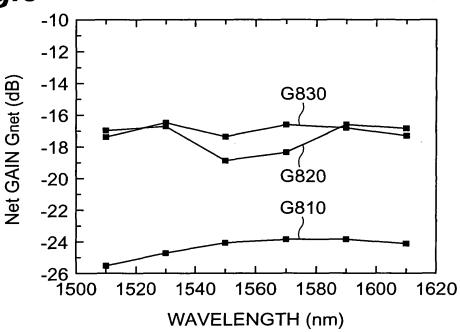


Fig.9

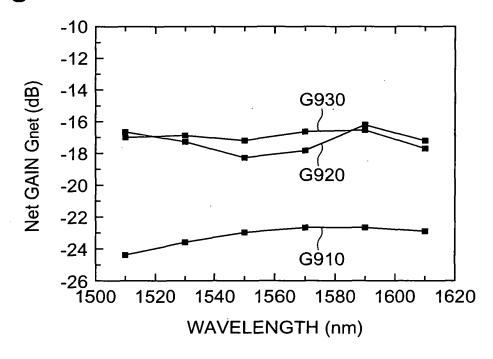
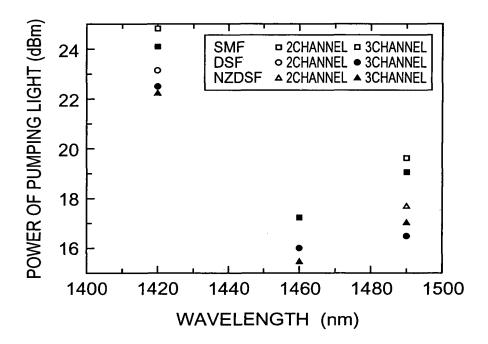


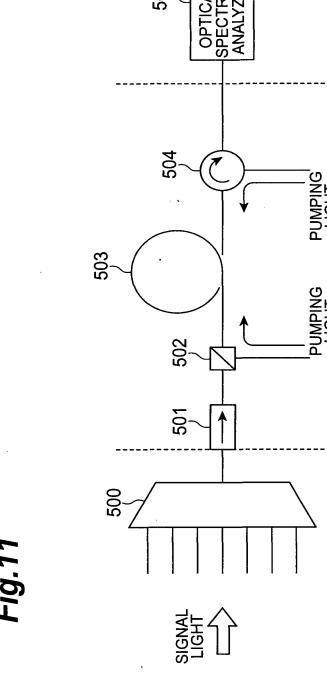
Fig.10



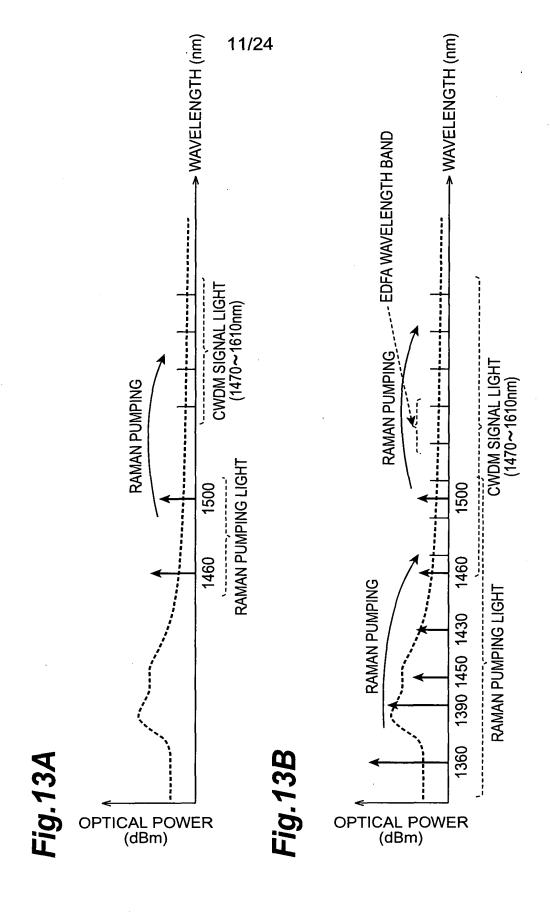
OUTPUT: + 10dBm/CH

Net GAIN: + 10dB

.....INPUT : + 0dBm/CH



PUMPING DIRECTION	WAVELENGTH (nm)	POWER (mW)
FORWARD	1360	211.6
BACKWARD	1360	613.8
	1390	235.5
	1405	11.2
	1430	11.4
	1460	6.6
	1500	23.8



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Fig.14A

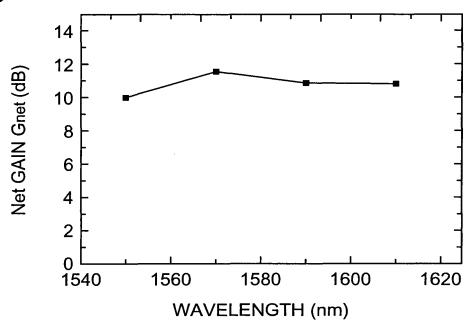
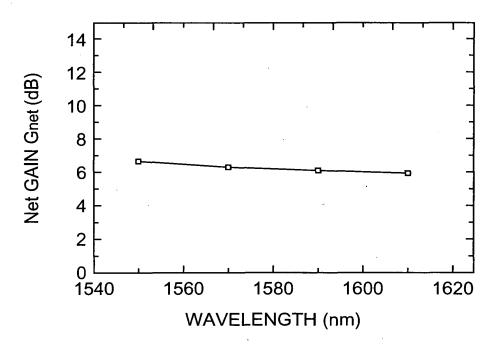
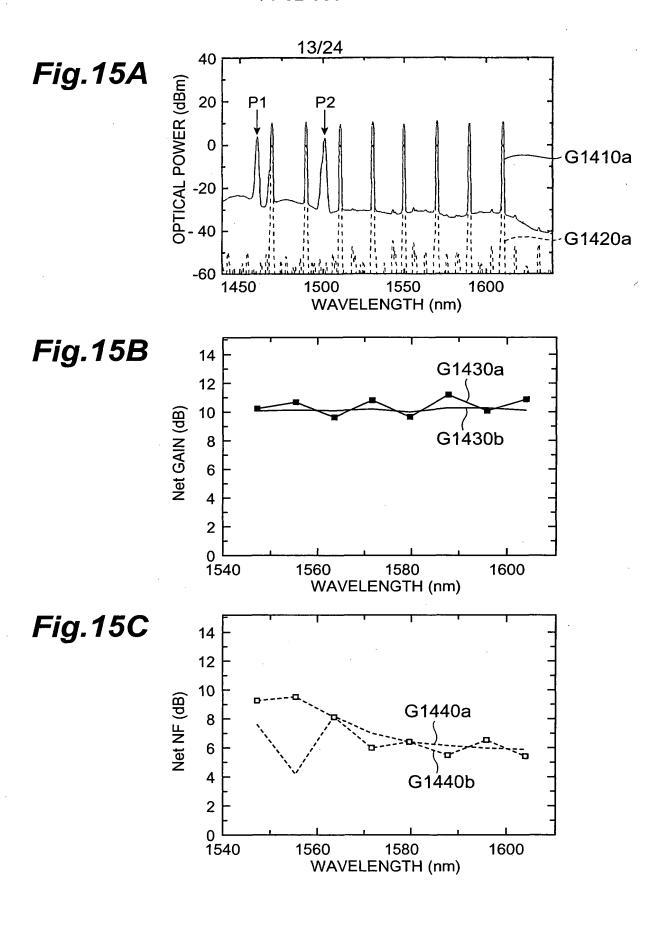


Fig.14B





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Fig.16A

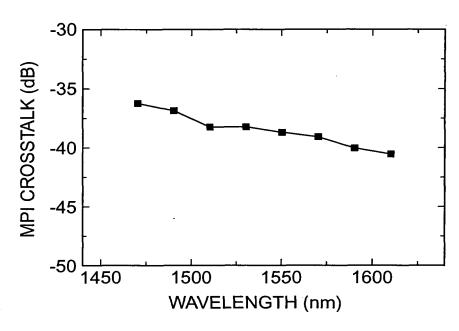
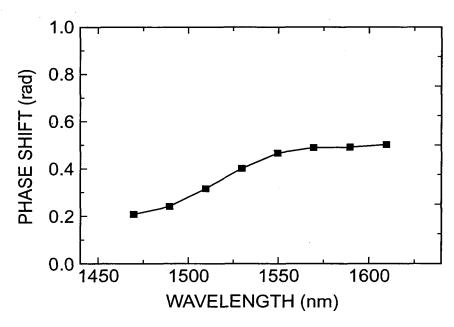


Fig.16B



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Fig.17

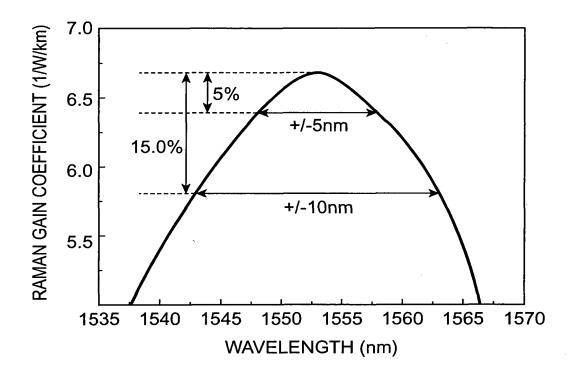
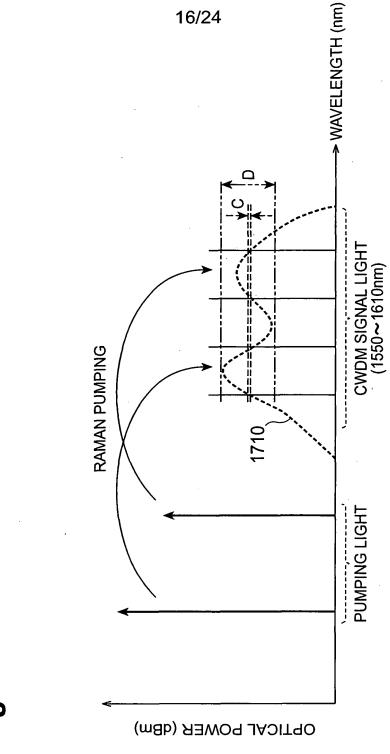
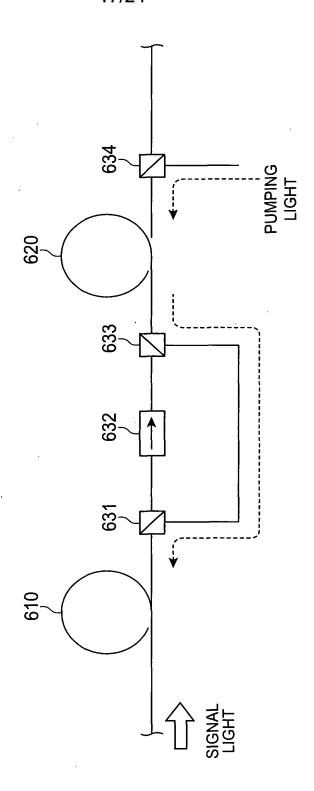


Fig.18

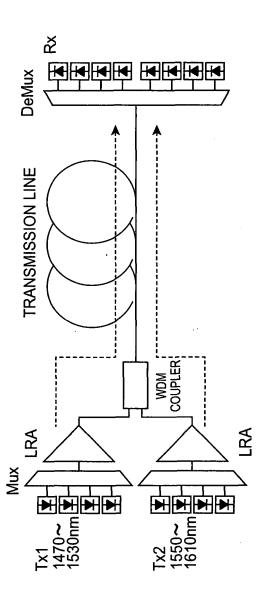
WAVE LENGTH OF SIGNAL LIGHT (nm) (CHANNEL SPACING: 20nm)	WAVELENGTH OF PUMPING LIGHT (nm)	
1470~1530	1387.5,1427.5	
1550~1610	1457.5,1500	
1510~1570	1422.5,1465	



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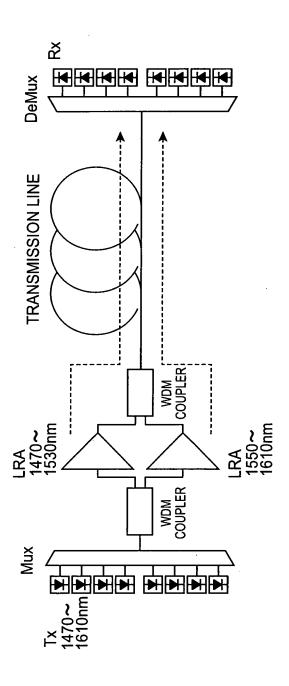


Fig. 22

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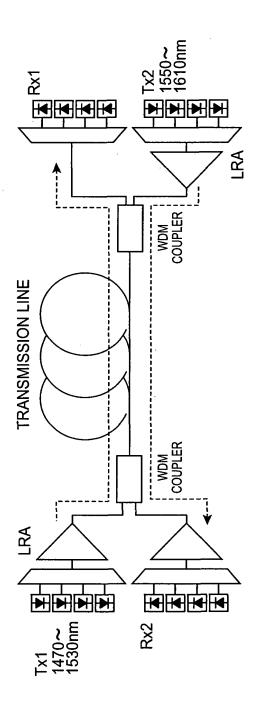
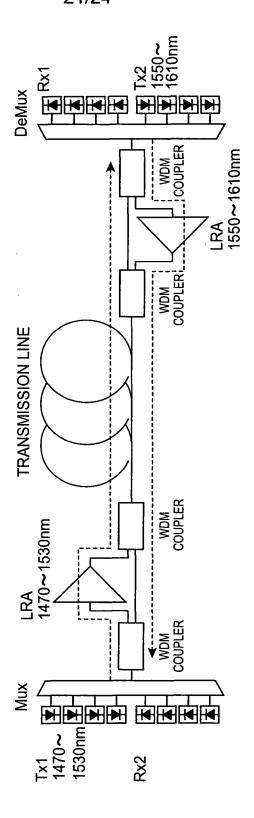
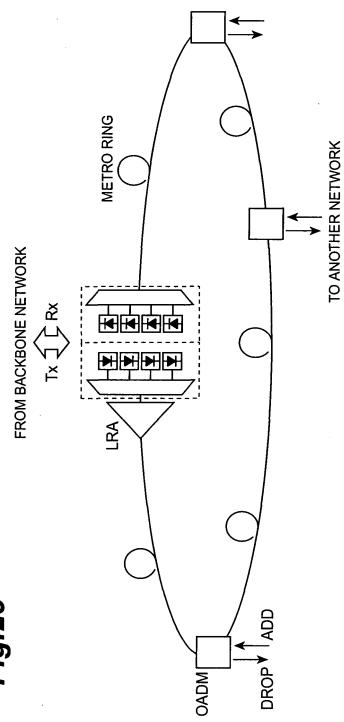


Fig. 23

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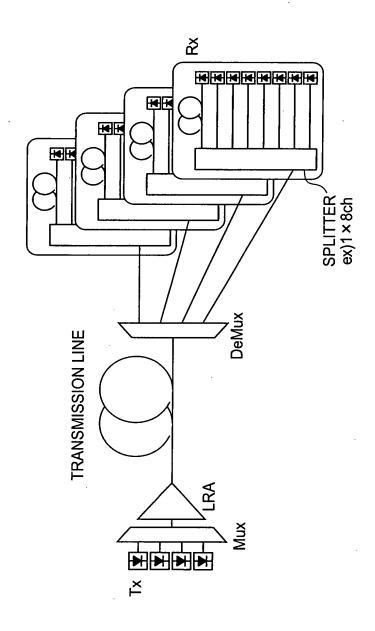


Fig. 26

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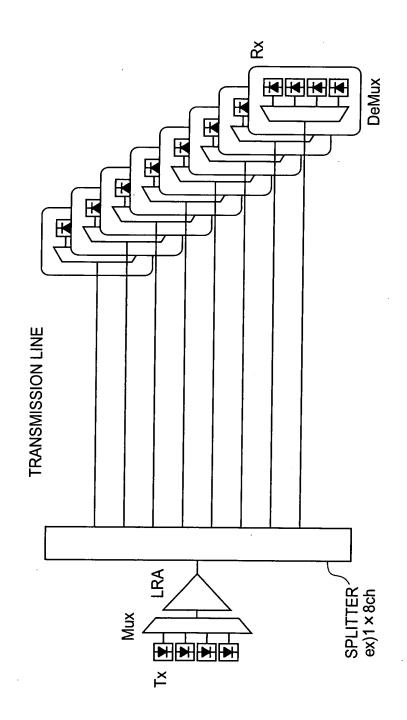


Fig. 27